

# ABSTRACT

Hydrogen embrittlement is prevented in  $\text{Sm}_2\text{Co}_{17}$ -based  
5 magnets and  $\text{R}_2\text{Fe}_{14}\text{B}$ -based magnets by metal plating the  
magnet, then carrying out heat treatment, or by forming a  
metal oxide or metal nitride layer on the metal plating  
layer or directly on the magnet itself.